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	1: Hum Immunol 1999 Jul;60(7):583-90 QR 180. HRelated Articles, Links		
	NOD background genes influence T cell responses to GAD 65 in HLA-DQ8 transgenic mice.		
PubMed Services	Abraham RS, Wilson SB, de Souza NF Jr, Strominger JL, Munn SR, David CS.		
	Department of Immunology, Division of Transplantation Surgery, Mayo Clinic, Rochester, MN 55905, USA.		
Related Resources	The major histocompatibility complex (MHC) genes play a significant role in the predisposition to insulin-dependent diabetes mellitus or type 1 diabetes. HLA-D (DQB1*0302, DQA 1*0301) genes have been shown to have the highest relative risk for human type 1 diabetes. To develop a "humanized" mouse model of diabetes, HLA-DQ8 was transgenically expressed in mice lacking endogenous class II genes. Since non-MHC background genes of the NOD influence the disease process, AP"/DQ8 mice were mated with the NOD strain and backcross to generate Abeta degree/DQ8/NOD mice. These mice have DQ8 as the sole M class II restriction element with NOD background genes at the N 2 generation. The DQ8 transgenic mice were used to identify T cell epitopes on glutamic acid decarboxylase (GAD 65), an important putative autoantigen in type 1 diabetes. The NOD background genes strongly influenced antigen processing, that is, different T cell epitopes were generated from the processing of GAD 65 in vivo the Abeta degree/DQ8 and in the Abeta degree/DQ8/NOD mice.		
	PMID: 10426275 [PubMed - indexed for MEDLINE]		

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Abstract



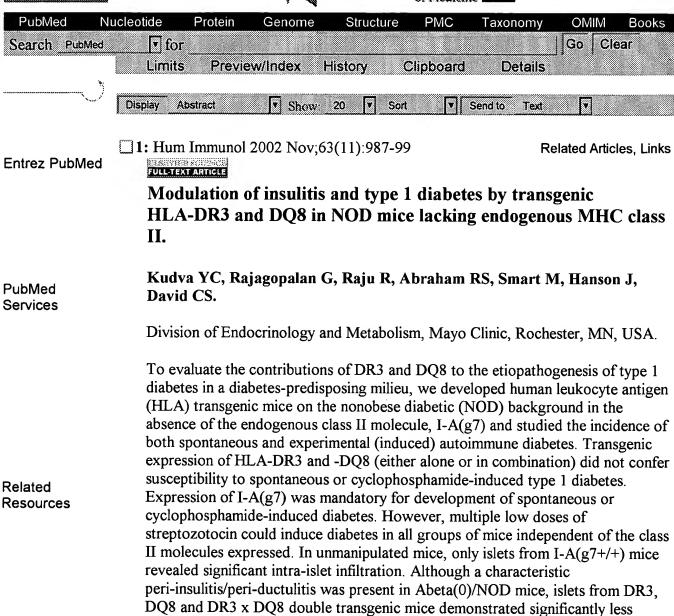
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PLUR=YES; OP=AND				
<u>L14</u>	Abraham-roshini-S\$.in.	0	<u>L14</u>	
<u>L13</u>	David-chella-S\$.in.	1	<u>L13</u>	
<u>L12</u>	(transgenic adj mouse) same (DR3)	6	<u>L12</u>	
<u>L11</u>	(transgenic adj mouse) same (I-Ealpha)	1	<u>L11</u>	
<u>L10</u>	L9 and (DRab and DQab)	2	<u>L10</u>	
<u>L9</u>	L8 and (DR3)	27	<u>L9</u>	
<u>L8</u>	L2 or L5 or L6 or L7	1637	<u>L8</u>	
<u>L7</u>	(SCID adj (mouse or mice))	1630	<u>L7</u>	
<u>L6</u>	((CD3 or Ig) adj knockout)	2	<u>L6</u>	
<u>L5</u>	L4 and (TCR adj knockout)	1	<u>L5</u>	
<u>L4</u>	(transgenic adj mouse) same (TCR)	129	<u>L4</u>	
<u>L3</u>	(transgenic adj mouse) same (RAG-2)	12	<u>L3</u>	
<u>L2</u>	(transgenic adj mouse) same (RAG-?)	13	<u>L2</u>	
<u>L1</u>	Huang-manley.in.	1	<u>L1</u>	

END OF SEARCH HISTORY

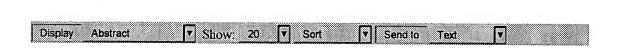








PMID: 12392851 [PubMed - in process]



infiltration. In conclusion, transgenic expression of HLA-DR3 and -DQ8

spontaneous diabetes in NOD mice lacking endogenous class II molecules.

associated with predisposition to type 1 diabetes alone is not sufficient to induce

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